

Appl. No. : 10/677,878
Filed : October 2, 2003

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph at page 1, line 2 as follows:

This application is a continuation of Application No. 09/601,076, filed February 20, 2002, now U.S. Patent No. 6,716,790, which is the national phase under 35 U.S.C. §371 of prior PCT International Application No. PCT/GB98/03004 which has an International filing date of October 7, 1998, which designated the United States of America, and which was published by the International Bureau in English on October 7, 1999, and which claims the benefit of South African Application No. 98/2737 filed April 1, 1998.

Please amend the Abstract as follows:

The invention provides heat treated self-supported precipitated ~~iron-based~~ α -Fe₂O₃-based Fischer-Tropsch catalyst particles. ~~The particles of the present invention are breakage resistant and exhibit superior synthesis performance.~~ The catalyst particles are breakage resistant, thus inhibiting the formation of catalyst fines in the Fischer-Tropsch reactor, thereby maintaining the performance of the reactor and reducing the contamination of down stream processes and catalysts by the catalyst fines. The catalyst particles also exhibit superior synthesis performance in low temperature Fischer-Tropsch processes, e.g., slurry bed reactor processes for the production of wax and other syncrudes. The invention also provides a method for producing ~~said~~ the particles and a process for using ~~said~~ the particles.

Please amend the paragraph beginning at page 8, line 1 as follows:

A sample of catalyst particles that were heat ~~tr-at-d~~ treated according to the manner described above was subjected to a Jet Impingement test. In this test a jet of air is used to impinge fresh catalyst particles against a plate. The smaller than 22 micron fraction of jet impinged sample is normally taken as a measure of the catalyst particle mechanical strength.

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Table 1 shows the results that were achieved from this test. Standard pilot plant prepared catalyst particles, and standard commercially prepared catalyst particles were used as reference materials.

Please amend the paragraph beginning at page 11, line 1 as follows:

Particle size distributions of ~~representative~~ representative on line catalyst particle samples were obtained for periods when untreated and heat treated catalyst particles were run respectively as outlined in example 3 above. A comparison of the catalyst fines content is presented in Table 4. The heat treated catalyst clearly shows a dramatic decrease in the amount of fines present in the reactor.